This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1.-33. (Cancelled)

34. (Previously presented) An isolated nucleic acid comprising the nucleotide sequence as shown in SEQ ID. No. 2.

35.-45. (Cancelled)

46. (Currently amended) An isolated nucleic acid consisting of between about 100 and 7000 consecutive nucleotides of SEQ ID NO:2, wherein said nucleic acid contains the nucleotide at position 8845 when numbered in accordance with ~~of~~ SEQ ID NO:2.

47. (Previously presented) The isolated nucleic acid of claim 46, consisting of between about 250 and 7000 consecutive nucleotides of SEQ ID NO:2.

48. (Previously presented) The isolated nucleic acid of claim 46, consisting of between about 750 and 7000 consecutive nucleotides of SEQ ID NO:2.

49. (Previously presented) The isolated nucleic acid of claim 46, consisting of between about 1000 and 7000 consecutive nucleotides of SEQ ID NO:2.

50. (Previously presented) The isolated nucleic acid of claim 46, consisting of between about 1250 and 7000 consecutive nucleotides of SEQ ID NO:2.

51. (Previously presented) The isolated nucleic acid of claim 46, consisting of between about 1500 and 7000 consecutive nucleotides of SEQ ID NO:2.

52. (Previously presented) The isolated nucleic acid of claim 46, consisting of between about 1750 and 7000 consecutive nucleotides of SEQ ID NO:2.

53. (Currently Amended) An isolated nucleic acid that is a complement to the entire length of the isolated nucleic acid of claim 46.

54. (Previously presented) The isolated nucleic acid of claim 46, further comprising a label.

55. (Previously presented) The isolated nucleic acid of claim 54, wherein the label is selected from the group consisting of: a radiolabel, an enzyme, a fluorescent compound, streptavidin, avidin, biotin, a magnetic moiety, a metal-binding moiety, an antigen moiety and an antibody moiety.

56. (Currently Amended) A solid phase support comprising an isolated nucleic acid consisting of between about 100 and 7000 consecutive nucleotides of SEQ ID NO:2, wherein said nucleic acid contains the nucleotide at position 8845 when numbered in accordance with SEQ ID NO:2 ~~The nucleic acid of claim 46, wherein the nucleic acid is bound to a solid phase support~~.

57. (Currently Amended) A probe array comprising an isolated nucleic acid consisting of between about 100 and 7000 consecutive nucleotides of SEQ ID NO:2, wherein said nucleic acid contains the nucleotide at position 8845 when numbered in accordance with SEQ ID NO:2 ~~The nucleic acid of claim 46, wherein the nucleic acid is part of a probe array~~.

58. (Previously presented) The isolated nucleic acid of claim 46 consisting of between about 2000 and 7000 consecutive nucleotides of SEQ ID NO:2.

59. (Previously presented) The isolated nucleic acid of claim 46, consisting of between about 2500 and 7000 consecutive nucleotides of SEQ ID NO:2.

60. (Previously presented) The isolated nucleic acid of claim 46, consisting of between about 3000 and 7000 consecutive nucleotides of SEQ ID NO:2.

61. (Previously presented) The isolated nucleic acid of claim 46, consisting of between about 3500 and 7000 consecutive nucleotides of SEQ ID NO:2.

62. (Previously presented) The isolated nucleic acid of claim 46, consisting of between about 4000 and 7000 consecutive nucleotides of SEQ ID NO:2.

63. (Previously presented) The isolated nucleic acid of claim 46, consisting of between about 4500 and 7000 consecutive nucleotides of SEQ ID NO:2.

64. (Previously presented) The isolated nucleic acid of claim 46, consisting of between about 5000 and 7000 consecutive nucleotides of SEQ ID NO:2.

65. - 69. (Cancelled).

70. (Currently amended) An isolated nucleic acid consisting of a first nucleic acid operably linked to a second nucleic acid, wherein said first nucleic ~~nuleic~~ acid consists of between about 100 and 7000 consecutive nucleotides of SEQ ID NO:2 and contains position 8845 of SEQ ID NO:2, and wherein said second nucleic acid is ~~comprises~~ a vector.

71. (New) An isolated nucleic acid consisting of about 100 consecutive nucleotides of SEQ ID NO:1, wherein said nucleic acid contains a cytosine at position 8845 when numbered in accordance with SEQ ID NO:1.